CLAIMS

1.	A grinding mill, comprising
	a grinding ring;

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an excentric disc, defining a horizontal plane, placed inside said grinding ring and having a periphery with a plurality of seats, each seat having two radially oriented lateral walls into which horizontally oriented elongated holes are cut and an extension piece that extends in a downward direction;

a grinding wheel, having a lower side with a base set into said seat and being placed next to said grinding ring; and

a regulating device, further comprising

at least one elastic plate assembly, having an upper end fastened to said base of said grinding wheel and a lower end that extends downward,

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a first adjusting device, holding said base in said seat at a preset horizontal position,

a covering plate, covering an outer side of said seat and having a hole,

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a second adjusting device, mounted on said hole of said covering plate, allowing to adjust a distance between said grinding wheel and said grinding ring and to adjust mutual orientations thereof to be parallel, and

a third adjusting device, mounted at said lower end of said elastic plate assembly, fixing said elastic plate assembly to said extension piece of said seat at a lower end thereof, determining an elastic force of said elastic plate assembly,

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wherein said first, second and third adjusting elements allow to adjust said distance and mutual orientation between said grinding wheel and said grinding ring as well as a grinding force.

2. The grinding mill according to claim 1, wherein said elastic plate assembly has an arc-like shape.

- 3. The grinding mill according to claim 1, wherein said elastic plate assembly on said lower end thereof has an elongated incision.
- 4. The grinding mill according to claim 1, wherein said first, second and third adjusting elements each comprise a threaded rod and/or nuts.
- 5. A separator, used in conjunction with a grinding mill and mounted in a main body thereof on a rotating vertical separator shaft, comprising:

two support rings of equal sizes and shapes, mounted on top of each other, having openings surrounded by a plurality of fixing holes; and

a plurality of blades, having vertical rods that are put through said fixing holes of said two support rings.

- 6. The separator according to claim 5, wherein said blades are surrounded by a guiding device.
- 7. The separator according to claim 6, wherein said guiding device comprises a drum body, having a peripheral surface with a plurality of openings which are covered by inclined lids fixed to one edge, and a pan, mounted below said drum body at a vertically adjustable distance.
- 8. The separator according to claim 7, wherein said inclined lids point outwards.
- 9. The separator according to claim 7, wherein said inclined lids point inwards.
- 10. The separator according to claim 7, wherein said inclined lids alternatingly point inwards and outwards.
- 11. The separator according to claim 7, wherein an extension ring is attached to an upper side of said drum body.

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